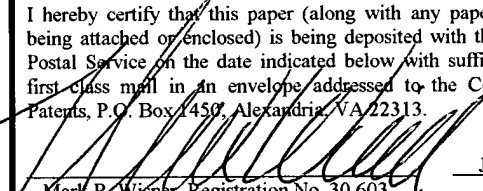




IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATION

|                                  |   |                   |             |
|----------------------------------|---|-------------------|-------------|
| In re Application of:            | § | Atty. Docket No.: | 94.0048     |
| I.J. Najmuddin                   | § |                   |             |
|                                  | § |                   |             |
| Serial No.: 10/081,090           | § |                   |             |
|                                  | § | Group Art Unit:   | 2862        |
| Filed: February 22, 2002         | § |                   |             |
|                                  | § |                   |             |
| For: <b>METHOD AND APPARATUS</b> | § | Examiner:         | V.J. Taylor |
| <b>FOR DETECTING</b>             | § |                   |             |
| <b>FRACTURES USING</b>           | § |                   |             |
| <b>FREQUENCY DATA DERIVED</b>    | § |                   |             |
| <b>FROM SEISMIC DATA</b>         | § |                   |             |

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| <b>CERTIFICATE OF MAILING (37 CFR 1.8a)</b>   |               |
| I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date indicated below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313. |               |
|   | June 18, 2003 |
| Mark R. Wisner, Registration No. 30,603   | Date          |

**PRELIMINARY AMENDMENT**

Dear Sir:

A Request for Continued Examination is being filed concurrently with this Preliminary Amendment, and before examination of the captioned continued examination application, it is respectfully requested that the following amendments be entered.

**IN THE CLAIMS**

Add the following new claims:

13. The method of claim 1 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

14. The method of claim 1 wherein the second frequency spectrum associated with the second portion of the seismic traces corresponding to the second window is generated using either Fast Fourier transform, Cosine Correlation Transform, or Wavelet Transform.

15. The program storage device of claim 5 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

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